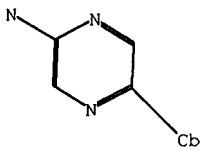
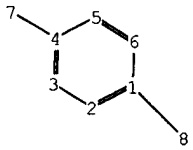
C:\STNEXP4\QUERIES\09576709.str





chain nodes :
8
ring nodes :
1 2 3 4 5 6 7
chain bonds :
1-8 4-7
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
4-7
exact bonds :
1-8
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

substructure search wherein N is in ring mode

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom
Generic attributes :
8:
Saturation : Unsaturated

Trying 3106016892...Open

Welcome to STN International! Enter x:x
LOGINID:ssspta1611hxl
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Dec 17	The CA Lexicon available in the CAPLUS and CA files
NEWS	3	Feb 06	Engineering Information Encompass files have new names
NEWS	4	Feb 16	TOXLINE no longer being updated
NEWS	5	Apr 23	Search Derwent WPINDEX by chemical structure
NEWS	6	Apr 23	PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
NEWS	7	May 07	DGENE Reload
NEWS	8	Jun 20	Published patent applications (A1) are now in USPATFULL
NEWS	9	JUL 13	New SDI alert frequency now available in Derwent's DWPI and DPCI

NEWS EXPRESS	July 11 CURRENT WINDOWS VERSION IS V6.0b, CURRENT MACINTOSH VERSION IS V5.0C (ENG) AND V5.0JB (JP), AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2001
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
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NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
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* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 15:10:42 ON 09 AUG 2001

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'REGISTRY' ENTERED AT 15:10:48 ON 09 AUG 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

Hong Liu

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STRUCTURE FILE UPDATES: 8 AUG 2001 HIGHEST RN 350791-61-6
DICTIONARY FILE UPDATES: 8 AUG 2001 HIGHEST RN 350791-61-6

TSCA INFORMATION NOW CURRENT THROUGH January 11, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT for details.

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>
Uploading C:\STNEXP4\QUERIES\09576709.str

L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> s l1
SAMPLE SEARCH INITIATED 15:11:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1168 TO ITERATE

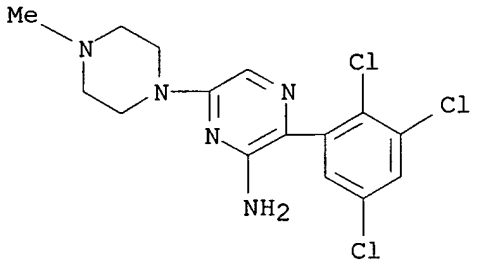
85.6% PROCESSED 1000 ITERATIONS 1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 21311 TO 25409
PROJECTED ANSWERS: 1 TO 87

L3 1 SEA SSS SAM L1

=> d scan

L3 1 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Pyrazinamine, 6-(4-methyl-1-piperazinyl)-3-(2,3,5-trichlorophenyl)- (9CI)
MF C15 H16 Cl3 N5



ALL ANSWERS HAVE BEEN SCANNED

=> s l1 ful
FULL SEARCH INITIATED 15:12:49 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 23967 TO ITERATE

100.0% PROCESSED 23967 ITERATIONS 14 ANSWERS
SEARCH TIME: 00.00.03

L4 14 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	134.49	134.64

FILE 'CAPLUS' ENTERED AT 15:12:56 ON 09 AUG 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1947 - 9 Aug 2001 VOL 135 ISS 7
FILE LAST UPDATED: 8 Aug 2001 (20010808/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAplus now provides online access to patents and literature covered in CA from 1947 to the present. On April 22, 2001, bibliographic information and abstracts were added for over 2.2 million references

published in CA from 1947 to 1966.

The CA Lexicon is now available in the Controlled Term (/CT) field.
Enter HELP LEXICON for full details.

=> s l4
L5 9 L4

=> d ibib abs hitstr 1-
YOU HAVE REQUESTED DATA FROM 9 ANSWERS - CONTINUE? Y/(N):y

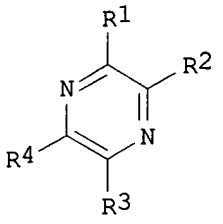
L5 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1998:608606 CAPLUS
DOCUMENT NUMBER: 129:230741
TITLE: Preparation of pyrazines as anticonvulsants
INVENTOR(S): Cox, Brian; Nobbs, Malcolm Stuart; Shah, Gita Punjabhai; Edney, Dean David; Loft, Michael Simon
PATENT ASSIGNEE(S): Glaxo Group Ltd., UK
SOURCE: PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9838174	A1	19980903	WO 1998-EP1077	19980226
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9868237	A1	19980918	AU 1998-68237	19980226
AU 732915	B2	20010503		
EP 966448	A1	19991229	EP 1998-913592	19980226
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9807814	A	20000222	BR 1998-7814	19980226
JP 2000511203	T2	20000829	JP 1998-537310	19980226
US 6255307	B1	20010703	US 1999-380062	19990825
NO 9904213	A	19991029	NO 1999-4213	19990831
PRIORITY APPLN. INFO.:			GB 1997-4275 A	19970301
			GB 1997-8183 A	19970423

WO 1998-EP1077 W 19980226

OTHER SOURCE(S): MARPAT 129:230741

GI



I

AB The title compds. [I; R1 (un)substituted by one or more halo atoms Ph, naphthyl; R2 = NH2, NHC(O)Ra; R3 = NRbRc, NHC(O)Ra, H; R4 = H, (un)substituted by one or more halo atoms C1-4 alkyl, CN, etc.; Ra = C1-4 alkyl, C3-7 cycloalkyl; Rb, Rc = H, C1-4 alkyl; NRbRc = (un)substituted 6-membered nitrogen contg. heterocycle; with the proviso that R1 does not represent 4-ClC6H4 when R2 = NH2, and R3, R4 = H], useful in the treatment of epilepsy, bipolar disorder or manic depression, pain, functional bowel disorders, neurodegenerative diseases, neuroprotection, neurodegeneration, or prevention or reducing dependence on, or preventing or reducing tolerance or reverse tolerance to, a dependence-inducing agent, were prepd. and formulated. Thus, treatment of 2-amino-6-chloro-3-(2,3,5-trichlorophenyl)pyrazine (prepn. described) with aq. ammonia in EtOH afforded 56% I [R1 = 2,3,5-Cl3C6H2; R2 = R3 = NH2; R4 = H]. Compds. I exhibited ED50's of 1-20 mg/kg when tested for antiepileptic activity.

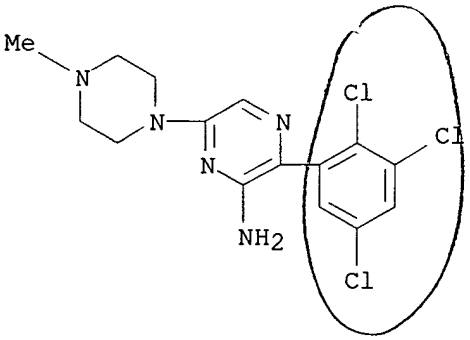
IT **212778-94-4P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of pyrazines as anticonvulsants)

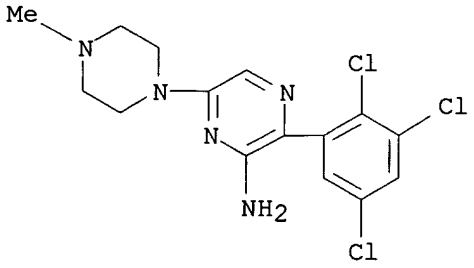
RN 212778-94-4 CAPLUS

CN Pyrazinamine, 6-(4-methyl-1-piperazinyl)-3-(2,3,5-trichlorophenyl)- (9CI) (CA INDEX NAME)



proviso

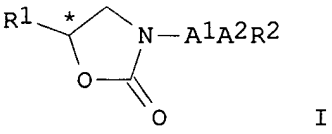
Hong Liu



L5 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1996:551083 CAPLUS
DOCUMENT NUMBER: 125:181512
TITLE: Optically active compound, liquid crystal composition containing the same and liquid crystal device
INVENTOR(S): Takiguchi, Takao; Iwaki, Takashi; Tokano, Goji; Kosaka, Yoko; Nakamura, Shinichi
PATENT ASSIGNEE(S): Canon Kk, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 39 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08151577	A2	19960611	JP 1994-319499	19941130

OTHER SOURCE(S): MARPAT 125:181512
GI

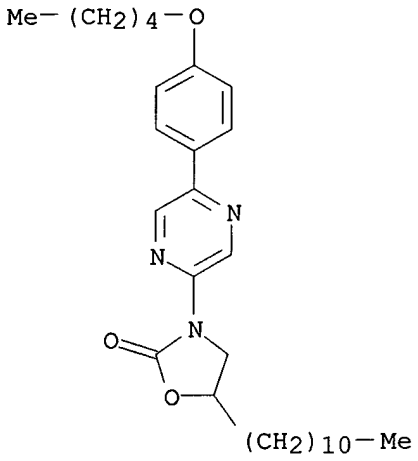


I

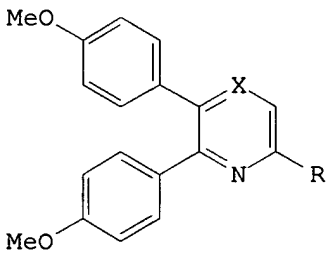
AB The title compd. is represented by I (R1, R2 = C2-20 alkyl; A1 = pyrimidine-2,5-diyl, pyridine-2,5-diyl, etc.; A2 = A1, single bond, 1,4-phenylene, 1,4-cyclohexylene, 1,3-dioxane-2,5-diyl, 1,3-dithiane-2,5-diyl). The compn. contains 1-80 % of the compd. The compn. shows a chiral smectic phase. The device showed improved switching characteristics suitable for liq. crystal displays and liq. crystal shutters.

IT **180845-17-4**
RL: DEV (Device component use); USES (Uses)
(optically active compd. for liq. crystal compn. of liq. crystal

display)
RN 180845-17-4 CAPLUS
CN 2-Oxazolidinone, 3-[5-[4-(pentyloxy)phenyl]pyrazinyl]-5-undecyl- (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1993:234009 CAPLUS
DOCUMENT NUMBER: 118:234009
TITLE: Studies on as-triazine derivatives. XIX. Synthesis of 2,3-diarylpyrazine and 2,3-diarylpyridine derivatives as blood platelet aggregation inhibitors
AUTHOR(S): Konno, Shoetsu; Matsuya, Yuji; Kumazawa, Minako; Amano, Masaki; Kokubo, Takeshi; Sagi, Mataichi; Yamanaka, Hiroshi
CORPORATE SOURCE: Pharm. Inst., Tohoku Univ., Sendai, 980, Japan
SOURCE: Yakugaku Zasshi (1993), 113(1), 40-52
CODEN: YKKZAJ; ISSN: 0031-6903
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
GI

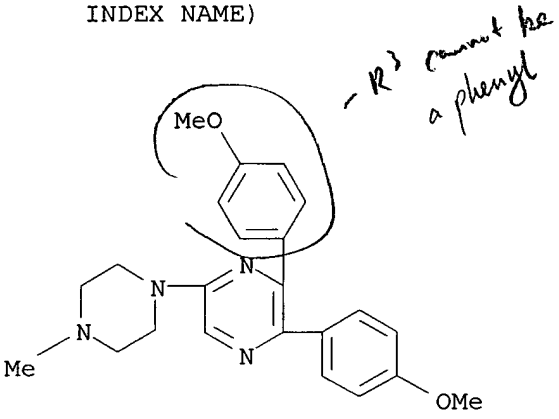


I

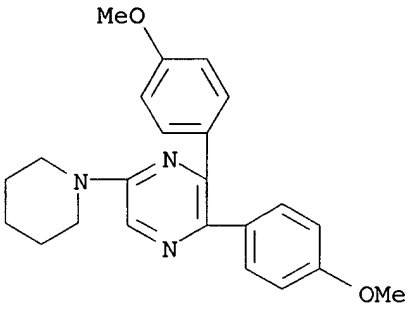
AB 4,5-Diphenyl-2-ethoxypyrimidine, 3,4-diphenyl-6-ethoxypyridazine, and 2,3-diphenyl-5-ethoxypyrazine were evaluated for inhibitory activity towards arachidonic acid-induced aggregation of rabbit blood platelet in vitro. 2,3-Diphenyl-5-ethoxypyrazine exhibited significant inhibitory activity. Various 5-substituted 2,3-bis(4-methoxyphenyl)pyrazines I (X = N R = OMe, OEt OPr, OBu, OC5H11-n, OCHMe2, OCH2CHMe2, OCH2R1, SEt, SMe, NHEt, piperidino, N-methylpiperazino, R1 = cyclopropyl) were synthesized by the nucleophilic substitution reaction of 5-chloro-2,3-bis(4-methoxyphenyl)pyrazine. In a similar manner, substituted 2,3-bis(4-methoxyphenylpyridines I (X = CH, R as above) were prepd. from 2,3-bis(4-methoxyphenyl)-6-methylsulfonylpyridine, which was synthesized by the cycloaddn.-retro Diels-Alder reaction of 5,6-bis(4-methoxyphenyl)-3-methylsulfonyl-1,2,4-triazine with norbornadiene. Among the compds. prepd., I (X = N, R = OCHMe2) showed the most potent inhibitory activity, which was more than the activity of anitrazafen.

IT **141425-23-2P 147593-65-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and blood platelet aggregation inhibition by)

RN 141425-23-2 CAPLUS
CN Pyrazine, 2,3-bis(4-methoxyphenyl)-5-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 147593-65-5 CAPLUS
CN Pyrazine, 2,3-bis(4-methoxyphenyl)-5-(1-piperidinyl)- (9CI) (CA INDEX NAME)

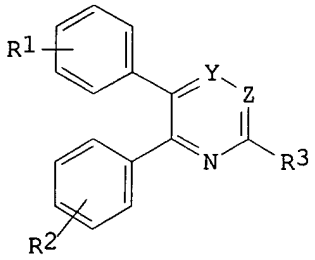


L5 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1992:235661 CAPLUS
DOCUMENT NUMBER: 116:235661
TITLE: Preparation of diphenylazines as antithrombotics vasodilators, antihypertensives, and antiinflammatories
INVENTOR(S): Takasugi, Hisashi; Sakai, Hiroyoshi; Tanaka, Akito; Ishikawa, Takatoshi
PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 121 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9202513	A1	19920220	WO 1991-JP1042	19910805
W: JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
JP 06501926	T2	19940303	JP 1991-513247	19910805

PRIORITY APPLN. INFO.: GB 1990-17183 19900806
GB 1990-20345 19900918
WO 1991-JP1042 19910805

OTHER SOURCE(S): MARPAT 116:235661
GI



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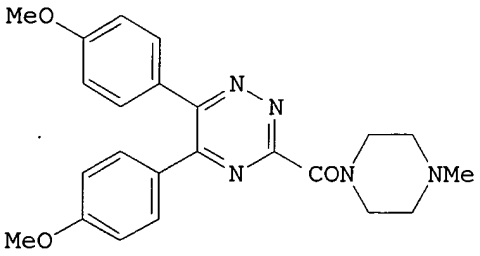


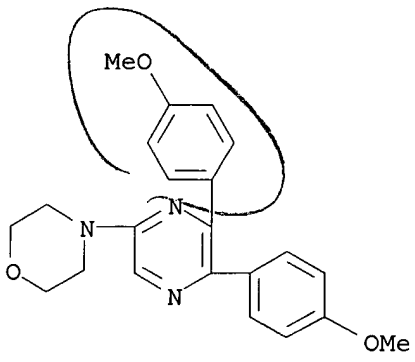
II

AB Title compds. [I; R1,R2 = alkoxy; R3 = (substituted) (tetrahydro)pyridyl, piperidyl, piperazinyl, morpholinyl, substituted amino, carboxyalkyl, carboxyalkenyl, hydroxyalkyl, CHO, EtO2C, alkylaminocarbonyl, etc.; Y,Z = CH, N], were prepd. Thus, 3-ethoxycarbonyl-5,6-bis(4-methoxyphenyl)-1,2,4-trriazine and N-methylpiperazine were heated at 80-90.degree. for 4 h 40 min to give, after treatment with HCl in EtOH, title compd. II. In an ex vivo screen, II at 1.0 mg/kg orally gave 100% inhibition of arachidonic acid induced platelet aggregation in guinea pig platelet rich plasma.

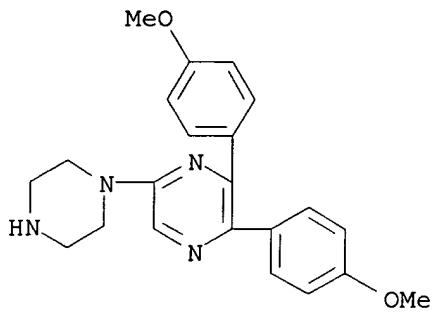
IT **141425-21-0P 141425-22-1P 141425-23-2P 141425-24-3P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as cardiovascular agent)

RN 141425-21-0 CAPLUS

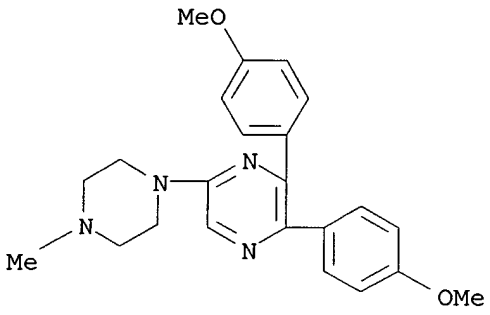
CN Morpholine, 4-[5,6-bis(4-methoxyphenyl)pyrazinyl]- (9CI) (CA INDEX NAME)



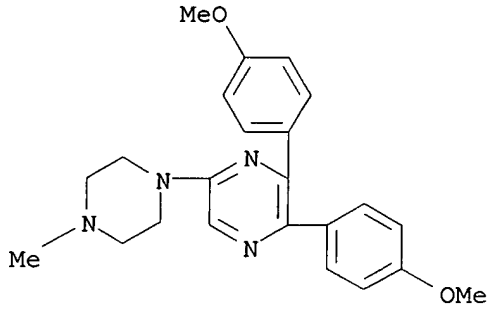
RN 141425-22-1 CAPLUS
CN Pyrazine, 2,3-bis(4-methoxyphenyl)-5-(1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 141425-23-2 CAPLUS
CN Pyrazine, 2,3-bis(4-methoxyphenyl)-5-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



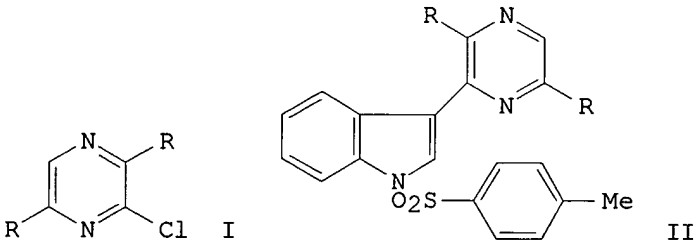
RN 141425-24-3 CAPLUS
CN Pyrazine, 2,3-bis(4-methoxyphenyl)-5-(4-methyl-1-piperazinyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L5 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2001 ACS

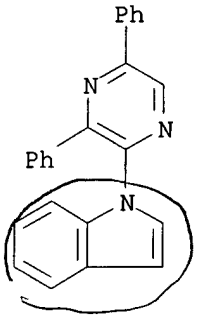
ACCESSION NUMBER: 1990:77113 CAPLUS
DOCUMENT NUMBER: 112:77113
TITLE: Cross-coupling reactions of chloropyrazines with 1-substituted indoles
AUTHOR(S): Akita, Yasuo; Itagaki, Yohko; Takizawa, Sayuri; Ohta, Akihiro
CORPORATE SOURCE: Tokyo Coll. Pharm., Tokyo, 192-03, Japan
SOURCE: Chem. Pharm. Bull. (1989), 37(6), 1477-80
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 112:77113
GI



AB Palladium-catalyzed coupling reactions of 2-chloro-3,6-dialkylpyrazines I (R = Me, Et, Me2CH, Me2CHCH2) with 1-tosylindole gave 1-tosyl-3-(3,6-dialkylpyrazin-2-yl)indoles II as the main product in each case. The subsequent hydrolysis of the products yielded the corresponding 3-(3,6-dialkylpyrazin-2-yl)indoles under alk. conditions. Coupling reactions of 2-chloro-3,6-dialkylpyrazines with 1-methyl- or 1-benzylindole occurred at the 2-position of the indoles, but

2-chloro-3,5-diphenylpyrazine failed to react with 1-methylindole.

IT **125031-89-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 125031-89-2 CAPLUS
CN 1H-Indole, 1-(3,5-diphenylpyrazinyl)- (9CI) (CA INDEX NAME)



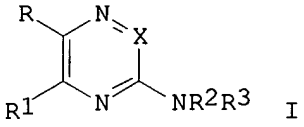
L5 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1984:103396 CAPLUS
DOCUMENT NUMBER: 100:103396
TITLE: 1,2,4-Triazine and pyrazine derivatives
INVENTOR(S): Wong, David Taiwai; Lacefield, William Bryant
PATENT ASSIGNEE(S): Lilly, Eli, and Co. , USA
SOURCE: Eur. Pat. Appl., 48 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 88593	A2	19830914	EP 1983-301142	19830303
EP 88593	A3	19840523		
EP 88593	B1	19870527		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4513135	A	19850423	US 1982-354982	19820305
DK 8300972	A	19830906	DK 1983-972	19830228
RO 86320	B3	19850315	RO 1983-110181	19830228
IL 68002	A1	19860930	IL 1983-68002	19830228
ZA 8301387	A	19841031	ZA 1983-1387	19830301
FI 8300708	A	19830906	FI 1983-708	19830302
JP 58162582	A2	19830927	JP 1983-35221	19830302
AU 8312029	A1	19830908	AU 1983-12029	19830303
AU 547581	B2	19851024		
GB 2116179	A1	19830921	GB 1983-5846	19830303
GB 2116179	B2	19850911		
CA 1195327	A1	19851015	CA 1983-422805	19830303
AT 27457	E	19870615	AT 1983-301142	19830303

DD 207716	A5	19840314	DD 1983-248497	19830304
ES 520340	A1	19840416	ES 1983-520340	19830304
HU 31175	O	19840428	HU 1983-762	19830304
HU 191368	B	19870227		
ES 526297	A1	19850416	ES 1983-526297	19831006
US 4585861	A	19860429	US 1985-688946	19850104

PRIORITY APPLN. INFO.: US 1982-354982 19820305
EP 1983-301142 19830303

GI



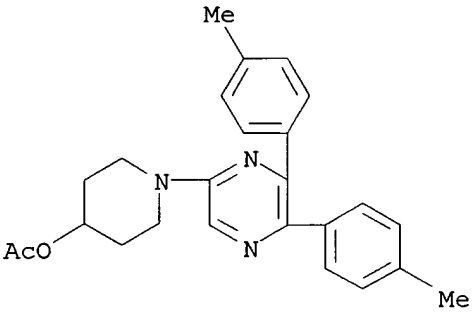
I

AB The title compds. I (X = CH, N; R,R1 = substituted Ph; NR2R3 = heterocyclic amino) were prepd. Thus 3-methylthio-5,6-bis(4-methylphenyl)triazine was prepd. by methylating the mercaptan and was treated with 4-piperidinol to give I (R = R1 = 4-MeC6H4, NR2R3 = 4-hydroxypiperidino, X = N) which at 900 nM gave a 50% increase in GABA binding in vitro.

IT **88300-51-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and GABA binding activity of)

RN 88300-51-0 CAPLUS

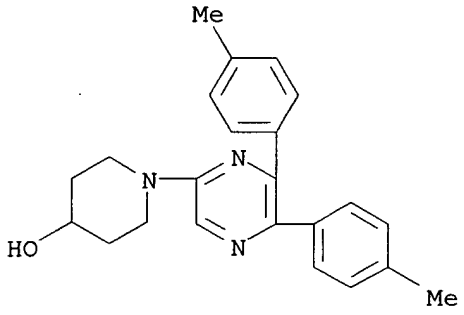
CN 4-Piperidinol, 1-[5,6-bis(4-methylphenyl)pyrazinyl]-, acetate (ester) (9CI) (CA INDEX NAME)



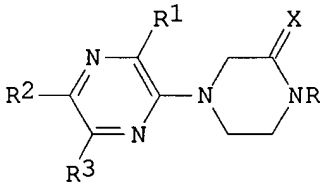
IT **88300-50-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn., acylation, and GABA binding activity of)

RN 88300-50-9 CAPLUS

CN 4-Piperidinol, 1-[5,6-bis(4-methylphenyl)pyrazinyl]- (9CI) (CA INDEX NAME)



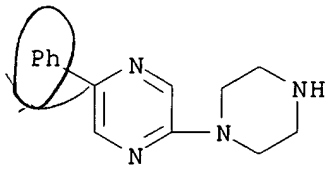
L5 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1978:400327 CAPLUS
DOCUMENT NUMBER: 89:327
TITLE: Piperazinylpyrazines with central serotoninmimetic activity
AUTHOR(S): Lumma, William C., Jr.; Hartman, Richard D.; Saari, Walfred S.; Engelhardt, Edward L.; Hirschmann, Ralph; Clineschmidt, Bradley V.; Torchiana, Mary Lou; Stone, Clement A.
CORPORATE SOURCE: Merck Sharp and Dohme Res. Lab., West Point, Pa., USA
SOURCE: J. Med. Chem. (1978), 21(6), 536-42
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB Twenty title compds. I [R = H, [CH2)3NMe2, or 6-chloro-2-pyrazinyl; R = H or Cl; R2 = H, Cl, Ph, or CO2Me; R3 = H, Cl, Me, SPh, etc.; X = 2H or O] were synthesized by reaction of the appropriate chloropyrazine with piperazine [110-85-0] or an N-substituted piperazine. I; (R = R1 = R2 = H; R3 = Cl; X = 2H,.HCl) [61655-58-1] had pharmacol. properties in mice characteristic of potent central serotoninmimetic activity and only weak peripheral serotoninmimetic action in isolated rat uterus. Preferred conformations of this compd., detd. by classical strain energy calcns. and CNDO mol. orbital techniques, were compared with serotonin [50-67-9] in order to detn. those structural features which might interact with serotonin receptors.

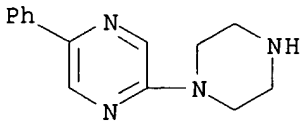
IT **61655-63-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and serotoninmimetic activity of)
RN 61655-63-8 CAPLUS
CN Pyrazine, 2-phenyl-5-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L5 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1977:72702 CAPLUS
DOCUMENT NUMBER: 86:72702
TITLE: Anorectic substituted (1'-piperazinyl)pyrazine derivatives
INVENTOR(S): Saari, Walfred S.; Lumma, William C., Jr.
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: Ger. Offen., 37 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2617205	A1	19761028	DE 1976-2617205	19760420
DE 2617205	B2	19800508		
DE 2617205	C3	19810129		
SE 7604093	A	19761022	SE 1976-4093	19760407
SE 421695	B	19820125		
SE 421695	C	19820506		
DK 7601644	A	19761022	DK 1976-1644	19760407
DK 143899	B	19811026		
DK 143899	C	19820413		
NO 7601207	A	19761022	NO 1976-1207	19760408
NO 146599	B	19820726		
NO 146599	C	19821103		
FI 7600978	A	19761022	FI 1976-978	19760409
FI 62666	B	19821029		
FI 62666	C	19830210		
NL 7603800	A	19761025	NL 1976-3800	19760409
NL 167692	B	19810817		
NL 167692	C	19820118		

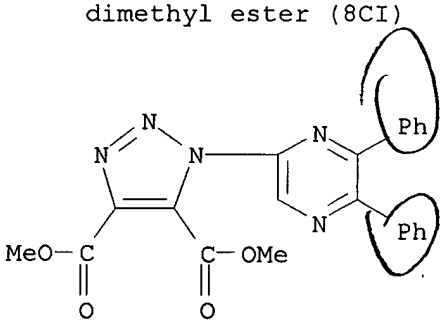


● HCl

L5 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1971:75924 CAPLUS
DOCUMENT NUMBER: 74:75924
TITLE: Heteroaromaticity. XLIX. Tetrazolo-azido isomerization in heteroaromatics. I. Syntheses and reactivities of some tetrazolopolyazines
AUTHOR(S): Sasaki, Tadashi; Kanematsu, Ken; Murata, Masayoshi
CORPORATE SOURCE: Fac. Eng., Nagoya Univ., Nagoya, Japan
SOURCE: J. Org. Chem. (1971), 36(3), 446-9
CODEN: JOCEAH
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The tetrazolo-azido transformation for eight model compds. are discussed. The tetrazolo-azido equil. in tetrazolo[1,5-a]pyrazines (I) is much influenced by the solvent, but the tetrazolo[1,5-b]pyridazine derivs. exist entirely as the tetrazoles in various solvents. 6-Azidotetrazolo [1,5-b]pyridazine and 6-azido-s-triazolo[4,3-b]-pyridazine exist exclusively as the azido form in the solid state because of the destabilization of the fused rings by electron attracting tetrazolo and triazolo moieties. Photochem. and thermal reactions of I give the imidazoles.

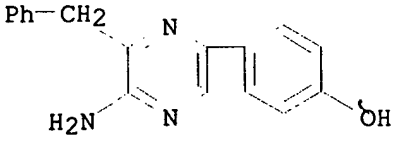
IT **27062-56-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 27062-56-2 CAPLUS
CN 1H-1,2,3-Triazole-4,5-dicarboxylic acid, 1-(5,6-diphenylpyrazinyl)-, dimethyl ester (8CI) (CA INDEX NAME)



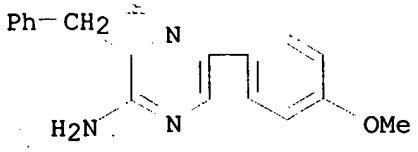
=> logoff

RL: RCT (Reactant)
(light-emitters involved in the chemi- and bioluminescence of coelenterazine)

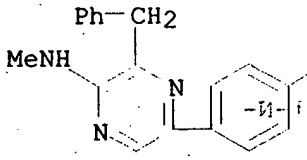
RN 37156-84-6 CAPLUS
CN Phenol, 4-[5-amino-6-(phenylmethyl)pyrazinyl]- (9CI) (CA INDEX NAME)



RN 40040-81-1 CAPLUS
CN Pyrazinamine, 5-(4-methoxyphenyl)-3-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 272117-54-1 CAPLUS
CN Phenol, 4-[5-(methylamino)-6-(phenylmethyl)pyrazinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 21
REFERENCE(S):
(1) Campbell, A; Mar Biol 1990, V104, P219 CAPLUS
(2) Hart, R; Biochemistry 1979, V18, P2204 CAPLUS
(4) Hirano, T; Tetrahedron Lett 1998, V39, P5541 CAPLUS
(5) Hori, K; Chem Commun 1973, P492 CAPLUS
(6) Ireland, J; Adv Phys Org Chem 1976, V12, P131 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

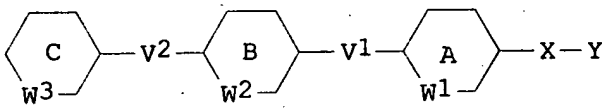
L24 ANSWER 17 OF 145 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1999:495258 CAPLUS
DOCUMENT NUMBER: 131:129907
TITLE: Preparation and formulation of tricyclic compounds as immunosuppressants and allergy inhibitors
INVENTOR(S): Tanimoto, Norihiko; Hasegawa, Yasushi; Haga, Nobuhiro
PATENT ASSIGNEE(S): Shionogi & Co., Ltd., Japan
SOURCE: PCT Int. Appl., 298 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9938829	A1	19990805	WO 1999-JP297	19990126
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9919837	A1	19990816	AU 1999-19837	19990126
EP 1052238	A1	20001115	EP 1999-900676	19990126
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
BR 9908539	A	20001205	BR 1999-8539	19990126
NO 2000003706	A	20000914	NO 2000-3706	20000719

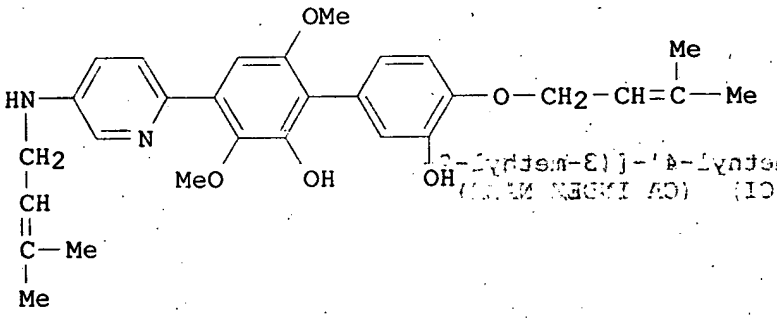
PRIORITY APPLN. INFO.: JP 1998-15554 A 19980128
WO 1999-JP297 W 19990126

OTHER SOURCE(S): MARPAT 131:129907

GI



I



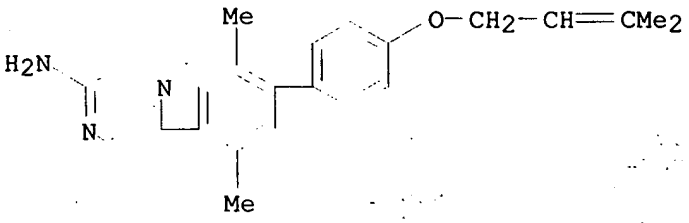
II

AB The title compds. I [each of ring A, ring B and ring C is independently a substituted or unsubstituted arom. ring or a substituted or unsubstituted five or six-membered heterocycle which may be condensed with a benzene ring; when ring A, ring B and/or ring C is a substituted or unsubstituted five-membered heterocycle, W1, W2 and/or W3 represents a bond; X is O or NR1 (where R1 is hydrogen, a lower alkyl or the like); Y is hydrogen, a lower alkyl, a lower alkenyl or the like ; one of V1 and V2 is a single bond and the other is a single bond, O, etc.] are prepd. The title compd. II in vitro showed IC50 of 400 ng/mL against the growth of mouse EL4 cells. The inhibiting activities of compds. of this invention against the prodn. of IgE were also demonstrated.

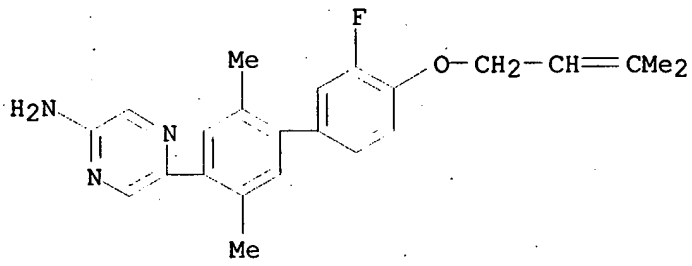
IT **234428-40-1P 234428-41-2P 234428-42-3P**
234428-43-4P 234428-44-5P 234428-45-6P
234428-46-7P 234428-47-8P 234428-49-0P
234428-50-3P 234428-51-4P 234428-52-5P

234428-53-6P 234429-20-0P 234429-21-1P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of tricyclic compds. as immunosuppressants and allergy inhibitors)

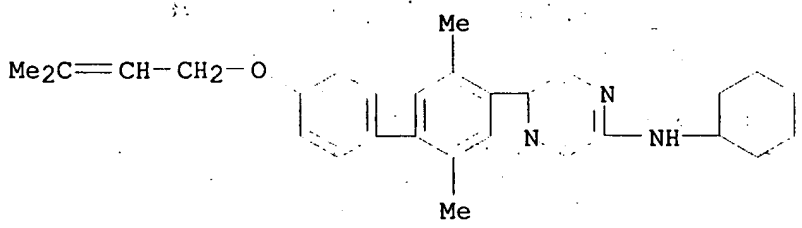
RN 234428-40-1 CAPLUS
CN Pyrazinamine, 5-[2,5-dimethyl-4'-[(3-methyl-2-butenyl)oxy][1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)



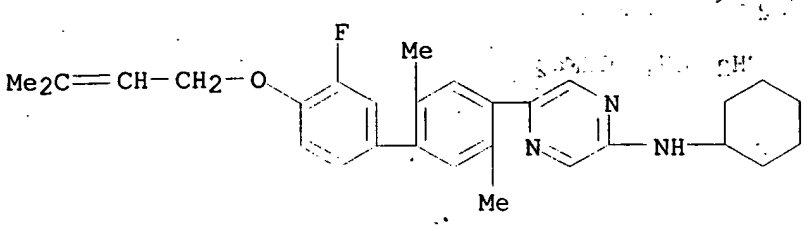
RN 234428-41-2 CAPLUS
CN Pyrazinamine, 5-[3'-fluoro-2,5-dimethyl-4'-[(3-methyl-2-butenyl)oxy][1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)



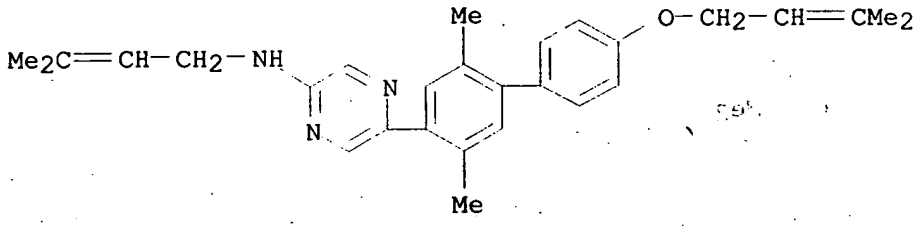
RN 234428-42-3 CAPLUS
CN Pyrazinamine, N-cyclohexyl-5-[2,5-dimethyl-4'-[(3-methyl-2-butenyl)oxy][1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)



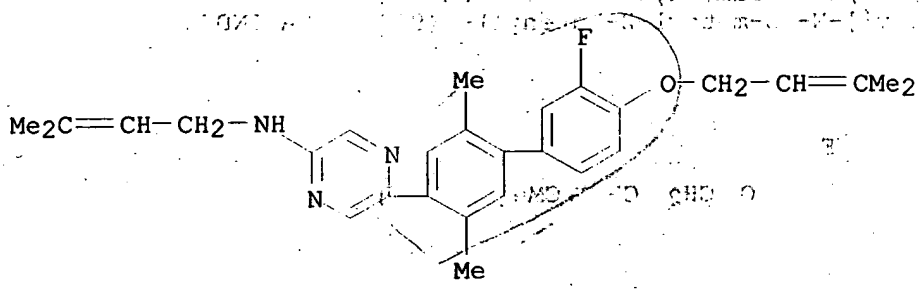
RN 234428-43-4 CAPLUS
CN Pyrazinamine, N-cyclohexyl-5-[3'-fluoro-2,5-dimethyl-4'-[(3-methyl-2-butenyl)oxy][1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)



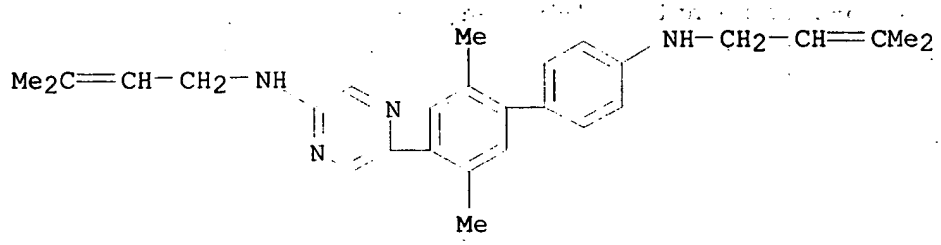
RN 234428-44-5 CAPLUS
CN Pyrazinamine, 5-[2,5-dimethyl-4'-[(3-methyl-2-butenyl)oxy][1,1'-biphenyl]-4-yl]-N-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



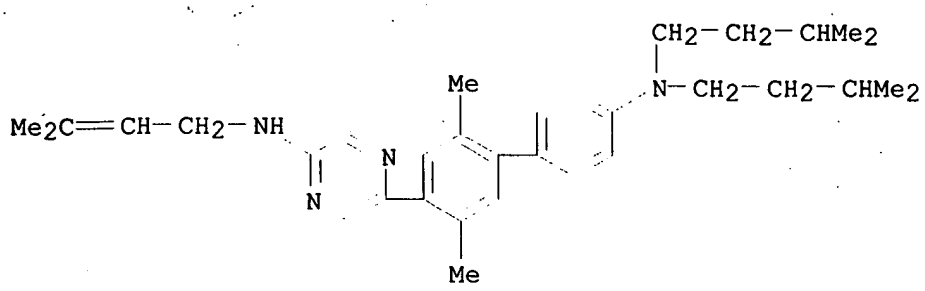
RN 234428-45-6 CAPLUS
CN Pyrazinamine, 5-[3'-fluoro-2,5-dimethyl-4'-[(3-methyl-2-butenyl)oxy][1,1'-biphenyl]-4-yl]-N-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



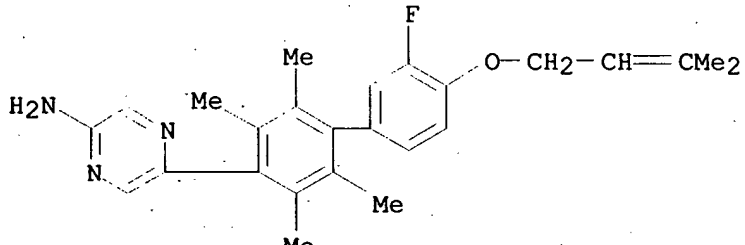
RN 234428-46-7 CAPLUS
CN Pyrazinamine, 5-[2,5-dimethyl-4'-[(3-methyl-2-butenyl)amino][1,1'-biphenyl]-4-yl]-N-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



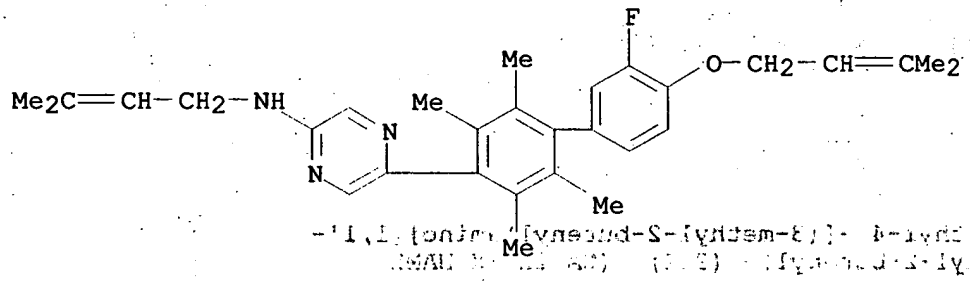
RN 234428-47-8 CAPLUS
CN Pyrazinamine, 5-[4'-[bis(3-methylbutyl)amino]-2,5-dimethyl[1,1'-biphenyl]-4-yl]-N-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



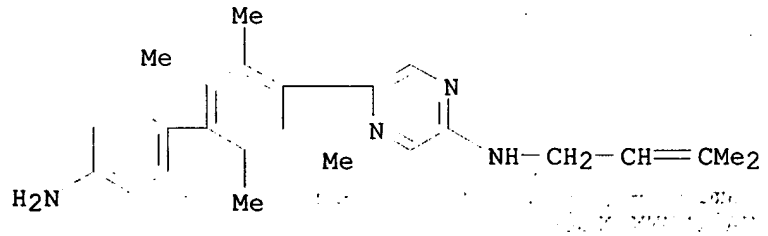
RN 234428-49-0 CAPLUS
CN Pyrazinamine, 5-[3'-fluoro-2,3,5,6-tetramethyl-4'-[(3-methyl-2-butenyl)oxy][1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)



RN 234428-50-3 CAPLUS
CN Pyrazinamine, 5-[3'-fluoro-2,3,5,6-tetramethyl-4'-[(3-methyl-2-butenyl)oxy][1,1'-biphenyl]-4-yl]-N-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)

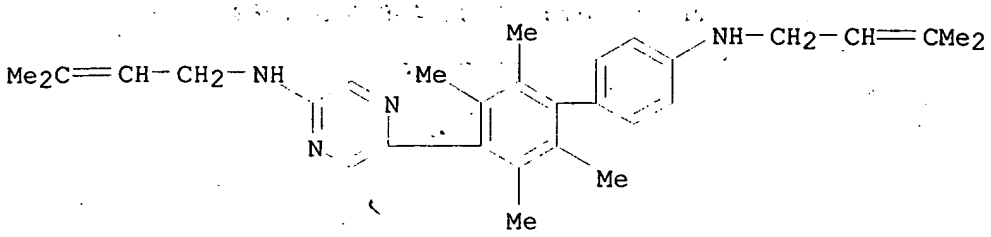


RN 234428-51-4 CAPLUS
CN Pyrazinamine, 5-(4'-amino-2,3,5,6-tetramethyl[1,1'-biphenyl]-4-yl)-N-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)

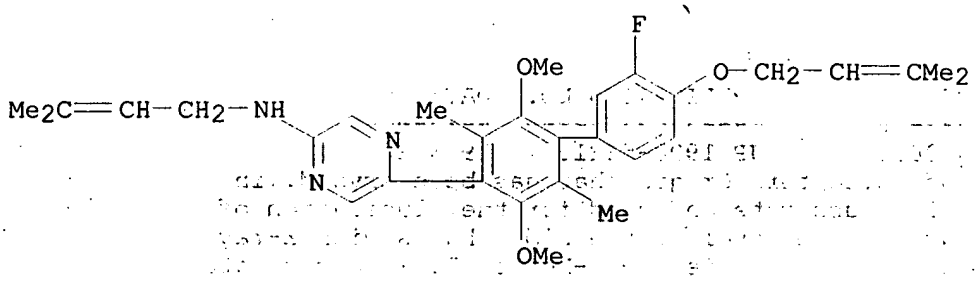


RN 234428-52-5 CAPLUS

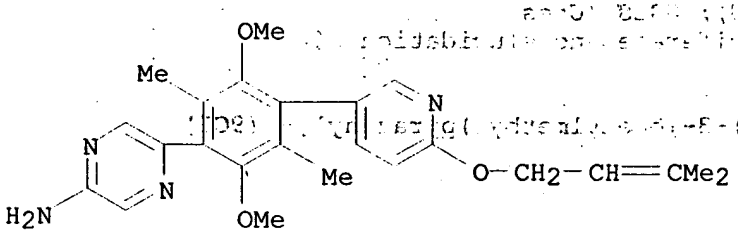
CN Pyrazinamine, N-(3-methyl-2-butenyl)-5-[2,3,5,6-tetramethyl-4'-[(3-methyl-2-butenyl)amino][1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)



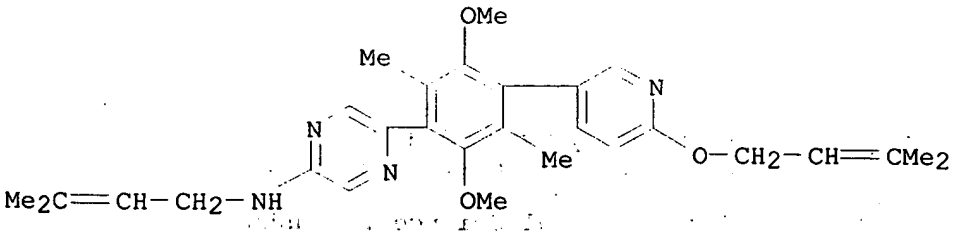
RN 234428-53-6 CAPLUS
CN Pyrazinamine, 5-[3'-fluoro-2,5-dimethoxy-3,6-dimethyl-4'-[(3-methyl-2-butenyl)oxy][1,1'-biphenyl]-4-yl]-N-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



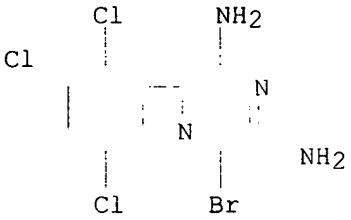
RN 234429-20-0 CAPLUS
CN Pyrazinamine, 5-[2,5-dimethoxy-3,6-dimethyl-4-[6-[(3-methyl-2-butenyl)oxy]-3-pyridinyl]phenyl]- (9CI) (CA INDEX NAME)



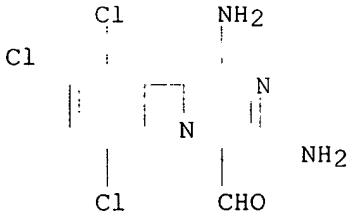
RN 234429-21-1 CAPLUS
CN Pyrazinamine, 5-[2,5-dimethoxy-3,6-dimethyl-4-[6-[(3-methyl-2-butenyl)oxy]-3-pyridinyl]phenyl]-N-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



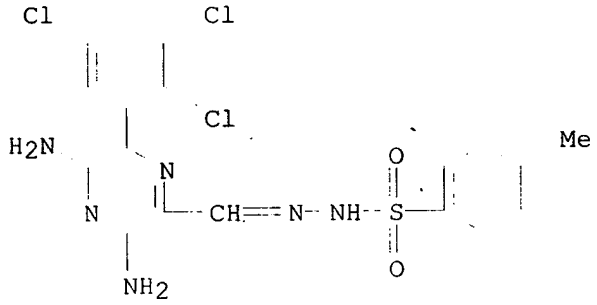
RN 212779-41-4 CAPLUS
CN 2,6-Pyrazinediamine, 3-bromo-5-(2,3,5-trichlorophenyl)- (9CI) (CA INDEX NAME)



RN 212779-42-5 CAPLUS
CN Pyrazinecarboxaldehyde, 3,5-diamino-6-(2,3,5-trichlorophenyl)- (9CI) (CA INDEX NAME)



RN 212779-43-6 CAPLUS
CN Benzenesulfonic acid, 4-methyl-, [[3,5-diamino-6-(2,3,5-trichlorophenyl)pyrazinyl]methylene]hydrazide (9CI) (CA INDEX NAME)



L84 ANSWER 24 OF 145 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1998:184331 CAPLUS
DOCUMENT NUMBER: 128:244282
TITLE: Preparation of fluorescent cyclodextrins and imidazopyrazines as their intermediates
INVENTOR(S): Teranishi, Katsumichi; Komoda, Junko; Hisamatsu, Makoto; Yamada, Tetsuya
PATENT ASSIGNEE(S): Japan Maize Products Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

Searched by Barb O'Bryen, STIC 308-4291

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10077286	A2	19980324	JP 1996-235584	19960905

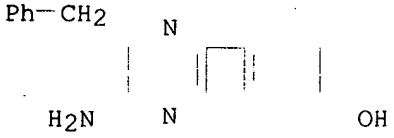
OTHER SOURCE(S): MARPAT 128:244282
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

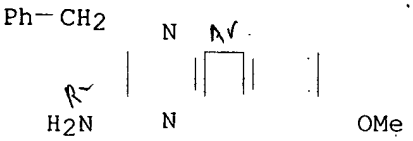
AB Fluorescent cyclodextrins I, II [R1 = H, C1-6 alkyl, C1-6 alkoxyl; R2 = H, C1-6 (un)substituted alkyl; R3 = Q; m = 0-5; n = 6-8], and their salts, useful for optical devices and sensors (no data), are prepd. by condensation of imidazopyrazines I, II (R1, R2, m = same as above; R3 = OH), or their salts with 6-monodeoxyaminocyclodextrin. I.HCl (R1 = MeO, R2 = CH2Ph, R3 = OH) was treated with mono-6-deoxy-6-amino-.alpha.-cyclodextrin and 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide HCl salt at 0.degree. for 14 h in pyridine to give 26% I (R1 = MeO, R2 = CH2Ph, R3 = Q, n = 6).

IT **37156-84-6 40040-81-1 119738-50-0**
RL: RCT (Reactant)
(prepn. of fluorescent cyclodextrins and imidazopyrazines as their intermediates for optical devices and sensors)

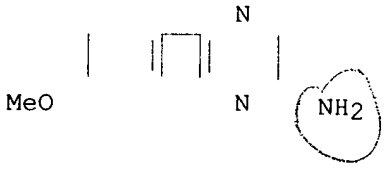
RN 37156-84-6 CAPLUS
CN Phenol, 4-[5-amino-6-(phenylmethyl)pyrazinyl]- (9CI) (CA INDEX NAME)



RN 40040-81-1 CAPLUS
CN Pyrazinamine, 5-(4-methoxyphenyl)-3-(phenylmethyl)- (9CI) (CA INDEX NAME)



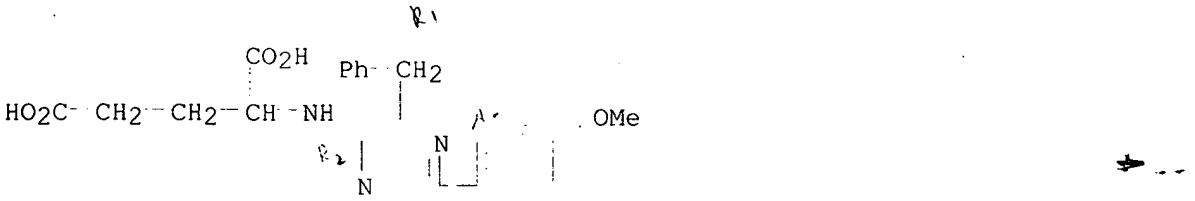
RN 119738-50-0 CAPLUS
CN Pyrazinamine, 5-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



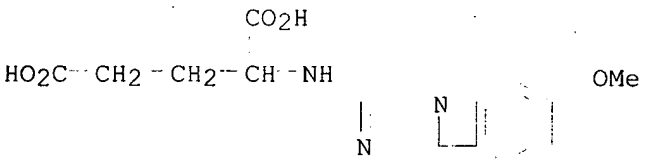
IT **204770-58-1P 204770-62-7P 204770-64-9P**

204770-67-2P 204770-68-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of fluorescent cyclodextrins and imidazopyrazines as their intermediates for optical devices and sensors)

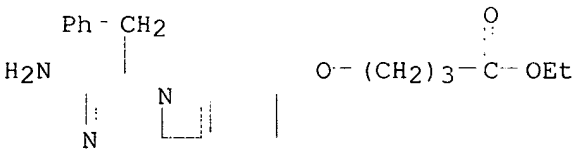
RN 204770-58-1 CAPLUS
CN Glutamic acid, N-[5-(4-methoxyphenyl)-3-(phenylmethyl)pyrazinyl]- (9CI) (CA INDEX NAME)



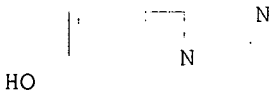
RN 204770-62-7 CAPLUS
CN Glutamic acid, N-[5-(4-methoxyphenyl)pyrazinyl]- (9CI) (CA INDEX NAME)



RN 204770-64-9 CAPLUS
CN Butanoic acid, 4-[4-[5-amino-6-(phenylmethyl)pyrazinyl]phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)



RN 204770-67-2 CAPLUS
CN Phenol, 4-(5-aminopyrazinyl)- (9CI) (CA INDEX NAME)



RN 204770-68-3 CAPLUS
CN Butanoic acid, 4-[4-(5-aminopyrazinyl)phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)

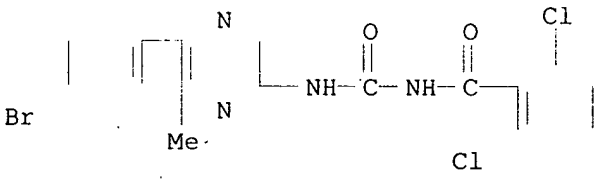
LANGUAGE: English

AB Several mono- and di-substituted urea pesticides were treated with (CF3CO)2O and heptafluorobutyric anhydride to det. if the procedure normally used to derivatize tri-substituted phenylureas yielded cleavage products instead of the derivatized phenylureas. Compds. studied included 4-chlorophenylurea, N-demethoxylinuron, siduron, EL-494, and diflubenzuron. All compds. yielded N-perfluoroacylated cleavage products, indicating a generalized cleavage reaction for mono- and di-substituted phenylureas.

IT **59489-59-7**
RL: RCT (Reactant)
(cleavage of, with perfluoroacetic anhydride)

RN 59489-59-7 CAPLUS

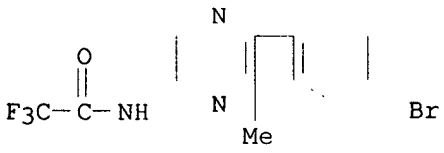
CN Benzamide, N-[[[5-(4-bromophenyl)-6-methylpyrazinyl]amino]carbonyl]-2,6-dichloro- (9CI) (CA INDEX NAME)



IT **85314-15-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 85314-15-4 CAPLUS

CN Acetamide, N-[5-(4-bromophenyl)-6-methylpyrazinyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



L24 ANSWER 84 OF 145 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1984:5477 CAPLUS

DOCUMENT NUMBER: 100:5477

TITLE: Photoreaction of 5-aryl-2,3-dicyanopyrazine in the presence of diethylamine

AUTHOR(S): Hamazaki, Hirohide; Tada, Masaru

CORPORATE SOURCE: Dep. Chem., Waseda Univ., Tokyo, Japan

SOURCE: Rikogaku Kenkyusho Hokoku, Waseda Daigaku (1983), (103), 35-8
CODEN: WDRKA6; ISSN: 0372-7181

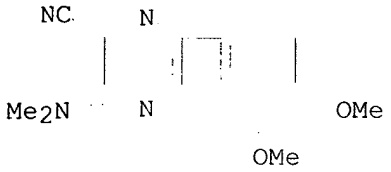
DOCUMENT TYPE: Journal

LANGUAGE: English

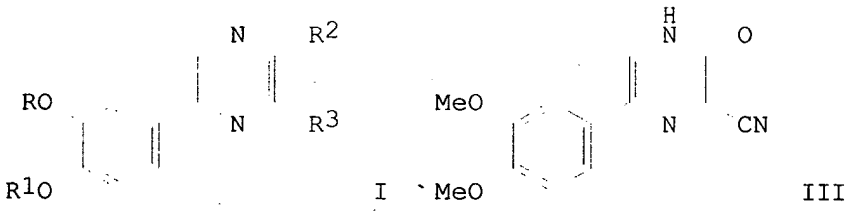
AB 5-Aryl-3-cyanopyrazine and 5-aryl-3-cyano-2-(diethylamino)pyrazine in which the aryl group is 3,4-dimethoxyphenyl or 4'-(benzo-15-crown-5)-yl, were formed by the photolysis of 5-aryl-2,3-dicyanopyrazine in the presence of Et2NH. Addn. of small amt. of a protic solvent to the reaction system, is required to produce the diethylamino-derivs. the role of the protic solvent and the reaction mechanism were discussed.

IT **88043-47-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)

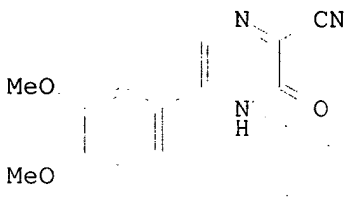
(prepn. of)
RN 88043-47-4 CAPLUS
CN Pyrazinecarbonitrile, 6-(3,4-dimethoxyphenyl)-3-(dimethylamino)- (9CI) (CA INDEX NAME)



L24 ANSWER 85 OF 145 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1983:198155 CAPLUS
DOCUMENT NUMBER: 98:198155
TITLE: The substitution reaction of pyrazine-2,3-dicarbonitrile derivatives with ammonia, amines, water and alcohols
AUTHOR(S): Hirano, Hideki; Lee, Rachel; Tada, Masaru
CORPORATE SOURCE: Sch. Sci. Eng., Waseda Univ., Tokyo, 160, Japan
SOURCE: J. Heterocycl. Chem. (1982), 19(6), 1409-13
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I III



IV

AB Arylpyrazinedicarbonitriles I [R = R1 = Me, RR1 = O(CH2CH2OCH2CH2)2; R2 = R3 = cyano] (II) give alkylaminopyrazinecarbonitriles I (R2 = BuNH, PhCH2NH, R3 = CN; R3 = BuNH, PhCH2NH, R2 = CN) by the substitution reaction with amines but give only 3-aminopyrazine-2-carbonitrile deriv. on reaction with ammonia. The reaction of II with alcs. in the presence of a base gives I (R2 = MeO, PhCH2O, R3 = CN; R3 = MeO, PhCH2O, R2 = CN). The reaction of water gives pyrazinonecarbonitriles III and IV.
IT **85575-14-0P 85575-18-4P 85575-28-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)

US 0978831507P1

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